

Notice of Allowability	Application No.	Applicant(s)
	10/648,774	KNIGHT ET AL.
	Examiner	Art Unit
	Jiping Lu	3749
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communicatio GHTS. This application is subject and MPEP 1308.	oplication. If not included n will be mailed in due course. THIS
1. A This communication is responsive to <u>amendment filed 7/3/</u>	<u>2006</u> .	
2. The allowed claim(s) is/are <u>1-16</u> .		
3.	been received. been received in Application No cuments have been received in this of this communication to file a reply ENT of this application. itted. Note the attached EXAMINER as reason(s) why the oath or declar	national stage application from the complying with the requirements
 CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's 	on's Patent Drawing Review (PTO	
Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the	84(c)) should be written on the draw	ings in the front (not the back) of
6. ☐ DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT €	sit of BIOLOGICAL MATERIAL	must be submitted. Note the
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☑ Interview Summary Paper No./Mail Da 8), 7. ☑ Examiner's Amend	ite
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EXAMINER'S AMENDMENT

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1. An extension of time under 37 CFR 1.136(a) is required in order to make an examiner's amendment which places this application in condition for allowance. During a telephone conversation conducted on 7/26/2006, Michael S. Neustel requested an extension of time for additional one MONTH(S) and authorized the Director to charge Deposit Account No. 501248 the required fee of \$165.00 for this extension and authorized the following examiner's amendment. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

Claims 18-35 have been canceled.

2. The following is an examiner's statement of reasons for allowance: the previous rejection of claims are withdrawn in view of the amendment and applicant's arguments. In particular, the invention is related to simultaneous spray cooling of wet electronic card in a sealed spray chamber and dry cooling for dry electronic card in a dry chamber within a chassis. Whereas the conventional thermal management systems are suitable only for low or high heat flux applications with no thermal management system serving the need for mixed heat flux applications where some electronic devices may be cooled by drying cooling and other electronic devices cooled by spray cooling. The reason for allowance of claim 1 is the inclusion of limitations regarding "a dry-wet thermal management system 10 for providing simultaneous spray cooling 60 and dry cooling 50 for a plurality of electronic cards 12, a chassis 20 having a dry chamber 28 and a spray chamber 26, at least one dry electronic card positioned within said

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dry chamber and at least one wet electronic card positioned within said spray chamber, wherein said spray chamber is sealed; wherein said at least one dry electronic card is a low-medium heat flux card with reduced cooling requirements and generates relatively lower amounts of heat during operation thereof compared to said at least one wet electronic card" which the prior art references failed to show or teach such simultaneous cooling of mixed electronic cards with different heat fluxes within a chassis.

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- 3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jiping Lu whose telephone number is 571 272 4878. The examiner can normally be reached on Monday-Friday, 9:00 AM 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, EHUD GARTENBERG can be reached on 571 272-4828. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Primary Examiner Art Unit 3749

J. L.